

Amdt. dated October 4, 2004
Reply to Office action of July 2, 2004

Serial No. 10/027,562
Docket No. SVL920010004US1
Firm No. 0055.0047

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for storing data in a data store, comprising:
receiving a first multimedia file in a first file format including essence, metadata objects providing information on the essence, and a unique identifier assigned to the essence;
extracting the essence from the file;
storing the essence in the data store;
~~extracting metadata from each metadata object in the first file~~
for each received metadata data object in the received multimedia file, performing:
 - (i) determining whether the metadata object includes a label or attribute of a label;
 - (ii) adding a tagged element to a metadata file corresponding to the label metadata if the metadata object includes one label; and
 - (iii) adding a tagged attribute to the metadata file if the metadata object includes one attribute for one label, wherein the tagged attribute indicates an attribute value for one tagged element corresponding to the label for which the value is provided; andstoring the metadata file ~~extracted metadata~~ in the data store in a second file format;
~~wherein the extracted metadata and essence in the data store are accessible using the unique identifier assigned to the essence.~~
2. (Canceled)
3. (Currently Amended) The method of claim 2, ~~wherein the metadata data structure comprises a metadata file, and wherein one separate metadata file including tagged elements and attributes is generated is provided for each received multimedia file in the first file format to store in the data store.~~
4. (Canceled)
5. (Canceled)

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6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Original) The method of claim 1, wherein the essence data comprises one of multimedia data, application data, text, and database records.

10. (Currently Amended) The method of claim 9, wherein the multimedia file conforms to the first file format comprises the Media Exchange Format (MXF) and wherein the metadata objects in the multimedia first file are implemented in the Key, Length, Value (KLV) coding scheme.

11. (Currently Amended) The method of claim 1, further comprising:
receiving a unique identifier;
accessing the essence and the metadata ~~data-structure~~ file associated with the unique identifier;
generating ~~at least one reconstructed metadata object for each tagged element and attribute from the metadata in the metadata data-structure file~~; and
assembling a reconstructed metadata second file in the first file format including the reconstructed metadata object objects, the accessed essence, and the received unique identifier.

12. (Currently Amended) The method of claim 11, ~~wherein the metadata data structure file includes metadata in tagged fields~~, wherein generating each reconstructed metadata object further comprises:
accessing the metadata data from one the tagged fields element or attribute in the metadata file; and
storing the accessed metadata in the reconstructed metadata object for the tagged element or attribute.

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13. The method of claim 12, ~~wherein each metadata object in the first file format multimedia file includes a metadata code corresponding to a metadata type, and wherein~~ generating each reconstructed metadata object further comprises:
providing a mapping associating tagged elements and attributes field types for the second file format with the metadata codes identifying metadata types in the first file format labels;
determining from the accessed metadata data structure one field type;
determining from the mapping the metadata code label corresponding to the determined field type tagged element or attribute; and
including the determined metadata code label in the reconstructed metadata object for the tagged element or attribute.

14. The method of claim 13, wherein generating the reconstructed metadata object for one tagged attribute further comprises:
accessing a metadata attribute value from the tagged attribute accessed metadata data structure for the accessed field type; and
adding the accessed attribute value to the reconstructed metadata object for the field type.

15. (Canceled)

16. (Canceled)

17. (Currently Amended) A system for storing data, comprising:
a data store;
means for receiving a first multimedia file in a first file format including essence, metadata objects providing information on the essence, and a unique identifier assigned to the essence;
means for extracting the essence from the file;
means for storing the essence in the data store;
means for extracting metadata from each metadata object in the first multimedia file by performing for each metadata object in the multimedia file;
(i) determining whether the metadata object includes a label or attribute of a label;

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(ii) adding a tagged element to a metadata file corresponding to the label metadata if the metadata object includes one label; and

(iii) adding a tagged attribute to the metadata file if the metadata object includes one attribute for one label, wherein the tagged attribute indicates an attribute value for one tagged element corresponding to the label for which the value is provided; and storing the metadata file extracted metadata in the data store in a second file format; wherein the extracted metadata and essence in the data store are accessible using the unique identifier assigned to the essence.

18. (Canceled)

19. (Currently Amended) The system of claim 18, ~~wherein the metadata data structure comprises a metadata file, and wherein one separate metadata file including tagged elements and attributes is generated is provided for each received multimedia file in the first file format to store in the data store.~~

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Original) The system of claim 17, wherein the essence data comprises one of multimedia data, application data, text, and database records.

26. (Currently Amended) The system of claim 25, wherein the first multimedia file format conforms to the Media Exchange Format (MXF) and wherein the metadata

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objects in the first multimedia file are implemented in the Key, Length, Value (KLV) coding scheme.

27. (Currently Amended) The system of claim 17, further comprising:
means for receiving a unique identifier;
means for accessing the essence and the metadata ~~data structure~~ file associated with the unique identifier;
means for generating ~~at least one reconstructed metadata object for each tagged element and attribute from the metadata in the metadata data structure file;~~ and
means for assembling a reconstructed metadata second file in the first file format including the reconstructed metadata object objects, the accessed essence, and the received unique identifier.

28. (Currently Amended) The method of claim 27, wherein the metadata data structure ~~includes metadata in tagged fields;~~ wherein the means for generating each reconstructed metadata object further performs:
accessing the metadata data from the one tagged fields element or attribute in the metadata file; and
storing the accessed metadata in the reconstructed metadata object for the tagged element or attribute.

29. (Currently Amended) The system of claim 28, wherein each metadata object in the first file format ~~includes a metadata code corresponding to a metadata type;~~ and wherein the means for generating each reconstructed metadata object further performs:
providing a mapping associating tagged elements and attributes field types for the second file format with labels the metadata codes identifying metadata types in the first file format;
~~determining from the accessed metadata data structure one field type;~~
determining from the mapping the metadata code label corresponding to the determined field type tagged element or attribute; and
including the determined label metadata code in the reconstructed metadata object for the tagged element or attribute.

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30. (Currently Amended) The system of claim 29, wherein the means for generating the reconstructed metadata object for one tagged attribute further performs:

accessing a metadata attribute value from the tagged attribute ~~accessed metadata data structure for the accessed field type;~~ and

adding the accessed attribute value to the reconstructed metadata object ~~for the field type.~~

31. (Canceled)

32. (Canceled)

33. (Currently Amended) An article of manufacture including code for storing data in a data store, wherein the code is capable of causing operations to be performed comprising:

receiving a first multimedia file ~~in a first file format~~ including essence, metadata objects providing information on the essence, and a unique identifier assigned to the essence;

extracting the essence from the file;

storing the essence in the data store;

~~extracting metadata from each metadata object in the first file; and~~

for each received metadata data object in the received multimedia file, performing:

(i) determining whether the metadata object includes a label or attribute of a label;

(ii) adding a tagged element to a metadata file corresponding to the label metadata if the metadata object includes one label; and

(iii) adding a tagged attribute to the metadata file if the metadata object includes one attribute for one label, wherein the tagged attribute indicates an attribute value for one tagged element corresponding to the label for which the value is provided; and

storing the ~~extracted metadata~~ file in the data store ~~in a second file format, wherein the extracted metadata and essence in the data store are accessible using the unique identifier assigned to the essence.~~

34. (Canceled)

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35. (Currently Amended) The article of manufacture of claim 34, wherein the ~~metadata data structure comprises a metadata file, and wherein one separate metadata file including tagged elements is generated~~ is provided for each received multimedia file in the first file format to store in the data store.

36. (Canceled)

37. (Canceled)

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Original) The article of manufacture of claim 33, wherein the essence data comprises one of multimedia data, application data, text, and database records.

42. (Currently Amended) The article of manufacture of claim 41, wherein the first multimedia file format ~~comprises~~ conforms to the Media Exchange Format (MXF) and wherein the metadata objects in the first multimedia file are implemented in the Key, Length, Value (KLV) coding scheme.

43. (Currently Amended) The article of manufacture of claim 33, further comprising:
receiving a unique identifier;
accessing the essence and the metadata ~~data structure~~ file associated with the unique identifier;
generating ~~at least one reconstructed metadata object for each tagged element and attribute from the metadata in the metadata data structure~~ file; and

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assembling a reconstructed metadata second file in the first file format including the reconstructed metadata ~~object~~, objects the accessed essence, and the received unique identifier.

44. (Currently Amended) The article of manufacture of claim 43, ~~wherein the metadata data structure includes metadata in tagged fields~~, wherein generating each reconstructed metadata object further comprises:

accessing the metadata ~~data~~ from the one tagged fields element or attribute in the metadata file; and

storing the accessed metadata in the reconstructed metadata object for the tagged element or attribute.

45. (Currently Amended) The article of manufacture of claim 44, ~~wherein each metadata object in the first file format includes a metadata code corresponding to a metadata type~~, and wherein generating each reconstructed metadata object further comprises:

providing a mapping associating tagged elements and attributes field types for the second file format with the ~~metadata codes identifying metadata types in the first file format~~ labels;

determining from the ~~accessed metadata data structure~~ one field type;

determining from the mapping the metadata code label corresponding to the ~~determined field type~~ tagged element or attribute; and

including the determined metadata code label in the reconstructed metadata object for the tagged element or attribute.

46. (Currently Amended) The article of manufacture of claim 45, wherein generating the reconstructed metadata object for one tagged attribute further comprises:

accessing a metadata attribute value from the tagged attribute ~~accessed metadata data structure for the accessed field type~~; and

adding the accessed attribute value to the reconstructed metadata object ~~for the field type~~.

47. (Canceled)

48. (Canceled)

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49. (New) The method of claim 1, wherein the label or attribute of the label in the metadata object comprises a universal label defined in a metadata dictionary.

50. (New) The method of claim 49, wherein determining whether the metadata object indicates a label or attribute of a label comprises:

processing the metadata dictionary to determine whether the universal label in the metadata object comprises a node having values defined by leaf universal labels or the leaf of one node, wherein universal labels comprising nodes map to tagged elements and universal labels comprising leafs map to tagged attributes for one tagged element.

51. (New) The system of claim 1, wherein the label or attribute of the label in the metadata object comprises a universal label defined in a metadata dictionary.

52. (New) The system of claim 17, wherein determining whether the metadata object indicates a label or attribute of a label comprises:

processing the metadata dictionary to determine whether the universal label in the metadata object comprises a node having values defined by leaf universal labels or the leaf of one node, wherein universal labels comprising nodes map to tagged elements and universal labels comprising leafs map to tagged attributes for one tagged element.

53. (New) The article of manufacture of claim 33, wherein the label or attribute of the label in the metadata object comprises a universal label defined in a metadata dictionary.

54. (New) The article of manufacture of claim 53, wherein determining whether the metadata object indicates a label or attribute of a label comprises:

processing the metadata dictionary to determine whether the universal label in the metadata object comprises a node having values defined by leaf universal labels or the leaf of one node, wherein universal labels comprising nodes map to tagged elements and universal labels comprising leafs map to tagged attributes for one tagged element.